



PCT

RAW SEQUENCE LISTING

DATE: 02/12/2004

PATENT APPLICATION: US/09/673,389A

TIME: 15:37:02

Input Set : A:\Sq011291.app

Output Set: N:\CRF4\02122004\I673389A.raw

3 <110> APPLICANT: Jomaa, Hassan
 5 <120> TITLE OF INVENTION: Process for identifying chemical active ingredients and
 6 active ingredients for inhibiting the
 7 1-deoxy-D-xylulose-5-phosphate biosynthesis pathway
 9 <130> FILE REFERENCE: 15514
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/673,389A
 C--> 12 <141> CURRENT FILING DATE: 2002-06-07
 14 <150> PRIOR APPLICATION NUMBER: DE19843279.8
 15 <151> PRIOR FILING DATE: 1998-09-22
 17 <150> PRIOR APPLICATION NUMBER: DE19816196.4
 18 <151> PRIOR FILING DATE: 1998-04-14
 20 <150> PRIOR APPLICATION NUMBER: DE19828097.1
 21 <151> PRIOR FILING DATE: 1998-06-24
 23 <150> PRIOR APPLICATION NUMBER: DE19825585.3
 24 <151> PRIOR FILING DATE: 1998-06-09
 26 <150> PRIOR APPLICATION NUMBER: DE19831637.2
 27 <151> PRIOR FILING DATE: 1998-07-15
 29 <150> PRIOR APPLICATION NUMBER: DE19831639.9
 30 <151> PRIOR FILING DATE: 1998-07-15
 32 <150> PRIOR APPLICATION NUMBER: DE19831638.0
 33 <151> PRIOR FILING DATE: 1998-07-15
 35 <160> NUMBER OF SEQ ID NOS: 4
 37 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply
 Corrected Diskette Needed

ERRORED SEQUENCES

614 <210> SEQ ID NO: 4
 615 <211> LENGTH: 1205
 616 <212> TYPE: PRT
 617 <213> ORGANISM: Plasmodium falciparum
 619 <400> SEQUENCE: 4
 620 Met Ile Phe Asn Tyr Val Phe Phe Lys Asn Phe Val Pro Val Val Leu
 621 1 5 10 15
 623 Tyr Ile Leu Leu Ile Ile Tyr Ile Asn Leu Asn Gly Met Asn Asn Lys
 624 20 25 30
 626 Asn Gln Ile Lys Thr Glu Lys Ile Tyr Ile Lys Lys Leu Asn Arg Leu
 627 35 40 45
 629 Ser Arg Lys Asn Ser Leu Cys Ser Ser Lys Asn Lys Ile Ala Cys Leu
 630 50 55 60
 632 Phe Asp Ile Gly Asn Asp Asp Asn Arg Asn Thr Thr Tyr Gly Tyr Asn
 633 65 70 75 80
 635 Val Asn Val Lys Asn Asp Asp Ile Asn Ser Leu Leu Lys Asn Asn Tyr

P.4

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 636 | | | | 85 | | | | 90 | | | | 95 | | | | |
| 638 | Ser | Asn | Lys | Leu | Tyr | Met | Asp | Lys | Arg | Lys | Asn | Ile | Asn | Asn | Val | Ile |
| 639 | | | | 100 | | | | 105 | | | | 110 | | | | |
| 641 | Ser | Thr | Asn | Lys | Ile | Ser | Gly | Ser | Ile | Ser | Asn | Ile | Cys | Ser | Arg | Asn |
| 642 | | | 115 | | | | | 120 | | | | 125 | | | | |
| 644 | Gln | Lys | Glu | Asn | Glu | Gln | Lys | Arg | Asn | Lys | Gln | Arg | Cys | Leu | Thr | Gln |
| 645 | | | 130 | | | | | 135 | | | | 140 | | | | |
| 647 | Cys | His | Thr | Tyr | Asn | Met | Ser | His | Glu | Gln | Asp | Lys | Leu | Ala | Asn | Asp |
| 648 | 145 | | | | | 150 | | | | | 155 | | | | 160 | |
| 650 | Asn | Asn | Arg | Asn | Asn | Lys | Lys | Asn | Phe | Asn | Leu | Leu | Phe | Ile | Asn | Tyr |
| 651 | | | | 165 | | | | 170 | | | | 175 | | | | |
| 653 | Phe | Asn | Leu | Lys | Arg | Met | Lys | Asn | Ser | Leu | Leu | Asn | Lys | Asp | Asn | Phe |
| 654 | | | 180 | | | | | 185 | | | | 190 | | | | |
| 656 | Phe | Tyr | Cys | Lys | Glu | Lys | Lys | Leu | Ser | Phe | Leu | His | Lys | Ala | Tyr | Lys |
| 657 | | | 195 | | | | | 200 | | | | 205 | | | | |
| 659 | Lys | Lys | Asn | Cys | Thr | Phe | Gln | Asn | Tyr | Ser | Leu | Lys | Arg | Lys | Ser | Asn |
| 660 | | | 210 | | | | 215 | | | | | 220 | | | | |
| 662 | Arg | Asp | Ser | His | Lys | Leu | Phe | Ser | Gly | Glu | Phe | Asp | Asp | Tyr | Thr | Asn |
| 663 | 225 | | | | | 230 | | | | | 235 | | | | 240 | |
| 665 | Asn | Asn | Ala | Leu | Tyr | Glu | Ser | Glu | Lys | Lys | Glu | Tyr | Ile | Thr | Leu | Asn |
| 666 | | | | 245 | | | | 250 | | | | 255 | | | | |
| 668 | Asn | Asn | Asn | Lys | Asn | Asn | Asn | Asn | Lys | Asn | Asn | Asp | Asn | Lys | Asn | Asn |
| 669 | | | 260 | | | | | 265 | | | | 270 | | | | |
| 671 | Asp | Asn | Asn | Asp | Tyr | Asn | Asn | Asn | Asn | Ser | Cys | Asn | Asn | Leu | Gly | Glu |
| 672 | | | 275 | | | | | 280 | | | | 285 | | | | |
| 674 | Arg | Ser | Asn | His | Tyr | Asp | Asn | Tyr | Gly | Gly | Asp | Asn | Asn | Asn | Pro | Cys |
| 675 | | 290 | | | | 295 | | | | | 300 | | | | | |
| 677 | Asn | Asn | Asn | Asn | Asp | Lys | Tyr | Asp | Ile | Gly | Lys | Tyr | Phe | Lys | Gln | Ile |
| 678 | 305 | | | | | 310 | | | | | 315 | | | | 320 | |
| 680 | Asn | Thr | Phe | Ile | Asn | Ile | Asp | Glu | Tyr | Lys | Thr | Ile | Tyr | Gly | Asp | Glu |
| 681 | | | | 325 | | | | 330 | | | | 335 | | | | |
| 683 | Ile | Tyr | Lys | Glu | Ile | Tyr | Glu | Leu | Tyr | Val | Glu | Arg | Asn | Ile | Pro | Glu |
| 684 | | | | 340 | | | | 345 | | | | 350 | | | | |
| 686 | Tyr | Tyr | Glu | Arg | Lys | Tyr | Phe | Ser | Glu | Asp | Ile | Lys | Lys | Ser | Val | Leu |
| 687 | | | 355 | | | | | 360 | | | | 365 | | | | |
| 689 | Phe | Asp | Ile | Asp | Lys | Tyr | Asn | Asp | Val | Glu | Phe | Glu | Lys | Ala | Ile | Lys |
| 690 | | 370 | | | | | 375 | | | | | 380 | | | | |
| 692 | Glu | Glu | Phe | Ile | Asn | Asn | Gly | Val | Tyr | Ile | Asn | Asn | Ile | Asp | Asn | Thr |
| 693 | 385 | | | | | 390 | | | | | 395 | | | | 400 | |
| 695 | Tyr | Tyr | Lys | Lys | Glu | Asn | Ile | Leu | Ile | Met | Lys | Lys | Ile | Leu | His | Tyr |
| 696 | | | | 405 | | | | 410 | | | | 415 | | | | |
| 698 | Phe | Pro | Leu | Leu | Lys | Leu | Ile | Asn | Asn | Pro | Ser | Asp | Leu | Lys | Lys | Leu |
| 699 | | | | 420 | | | | 425 | | | | 430 | | | | |
| 701 | Lys | Lys | Gln | Tyr | Leu | Pro | Leu | Leu | Ala | His | Glu | Leu | Lys | Ile | Phe | Leu |
| 702 | | | 435 | | | | | 440 | | | | 445 | | | | |
| 704 | Phe | Phe | Ile | Val | Asn | Ile | Thr | Gly | Gly | His | Phe | Ser | Ser | Val | Leu | Ser |
| 705 | | | 450 | | | | 455 | | | | | 460 | | | | |
| 707 | Ser | Leu | Glu | Ile | Gln | Leu | Leu | Leu | Leu | Tyr | Ile | Phe | Asn | Gln | Pro | Tyr |
| 708 | 465 | | | | | 470 | | | | | 475 | | | | 480 | |

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710 Asp Asn Val Ile Tyr Asp Ile Gly His Gln Ala Tyr Val His Lys Ile
711      485      490      495
713 Leu Thr Gly Arg Lys Leu Leu Phe Leu Ser Leu Arg Asn Lys Lys Gly
714      500      505      510
716 Ile Ser Gly Phe Leu Asn Ile Phe Glu Ser Ile Tyr Asp Lys Phe Gly
717      515      520      525
719 Ala Gly His Ser Ser Thr Ser Leu Ser Ala Ile Gln Gly Tyr Tyr Glu
720      530      535      540
722 Ala Glu Trp Gln Val Lys Asn Lys Glu Lys Tyr Gly Asn Gly Asp Ile
723 545      550      555      560
725 Glu Ile Ser Asp Asn Ala Asn Val Thr Asn Asn Glu Arg Ile Phe Gln
726      565      570      575
728 Lys Gly Ile His Asn Asp Asn Asn Ile Asn Asn Asn Ile Asn Asn Asn
729      580      585      590
731 Asn Tyr Ile Asn Pro Ser Asp Val Val Gly Arg Glu Asn Thr Asn Val
732      595      600      605
734 Pro Asn Val Arg Asn Asp Asn His Asn Val Asp Lys Val His Ile Ala
735      610      615      620
737 Ile Ile Gly Asp Gly Gly Leu Thr Gly Gly Met Ala Leu Glu Ala Leu
738 625      630      635      640
740 Asn Tyr Ile Ser Phe Leu Asn Ser Lys Ile Leu Ile Ile Tyr Asn Asp
741      645      650      655
743 Asn Gly Gln Val Ser Leu Pro Thr Asn Ala Val Ser Ile Ser Gly Asn
744      660      665      670
746 Arg Pro Ile Gly Ser Ile Ser Asp His Leu His Tyr Phe Val Ser Asn
747      675      680      685
749 Ile Glu Ala Asn Ala Gly Asp Asn Lys Leu Ser Lys Asn Ala Lys Glu
750      690      695      700
752 Asn Asn Ile Phe Glu Asn Leu Asn Tyr Asp Tyr Ile Gly Val Val Asn
753 705      710      715      720
755 Gly Asn Asn Thr Glu Glu Leu Phe Lys Val Leu Asn Asn Ile Lys Glu
756      725      730      735
758 Asn Lys Leu Lys Arg Ala Thr Val Leu His Val Arg Thr Lys Lys Ser
759      740      745      750
761 Asn Asp Phe Ile Asn Ser Lys Ser Pro Ile Ser Ile Leu His Ser Ile
762      755      760      765
764 Lys Lys Asn Glu Ile Phe Pro Phe Asp Thr Thr Ile Leu Asn Gly Asn
765      770      775      780
767 Ile His Lys Lys Glu Asn Lys Ile Glu Glu Glu Lys Asn Val Ser Ser Ser
768 785      790      795      800
770 Thr Lys Tyr Asp Val Asn Asn Lys Asn Asn Lys Asn Asn Asp Asn Ser
771      805      810      815
773 Glu Ile Ile Lys Tyr Glu Asp Met Phe Ser Lys Glu Thr Phe Thr Asp
774      820      825      830
776 Ile Tyr Thr Asn Glu Met Leu Lys Tyr Leu Lys Lys Asp Arg Asn Ile
777      835      840      845
779 Ile Phe Leu Ser Pro Ala Met Leu Gly Gly Ser Gly Leu Val Lys Ile
780      850      855      860
782 Ser Glu Arg Tyr Pro Asn Asn Val Tyr Asp Val Gly Ile Ala Glu Gln

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783 865      870      875      880
785 His Ser Val Thr Phe Ala Ala Ala Met Ala Met Asn Lys Lys Leu Lys
786      885      890      895
788 Ile Gln Leu Cys Ile Tyr Ser Thr Phe Leu Gln Arg Ala Tyr Asp Gln
789      900      905      910
791 Ile Ile His Asp Leu Asn Leu Gln Asn Ile Pro Leu Lys Val Ile Ile
792      915      920      925
794 Gly Arg Ser Gly Leu Val Gly Glu Asp Gly Ala Thr His Gln Gly Ile
795      930      935      940
797 Tyr Asp Leu Ser Tyr Leu Gly Thr Leu Asn Asn Ala Tyr Ile Ile Ser
798 945      950      955      960
800 Pro Ser Asn Gln Val Asp Leu Lys Arg Ala Leu Arg Phe Ala Tyr Leu
801      965      970      975
803 Asp Lys Asp His Ser Val Tyr Ile Arg Ile Pro Arg Met Asn Ile Leu
804      980      985      990
806 Ser Asp Lys Tyr Met Lys Gly Tyr Leu Asn Ile His Met Lys Asn Glu
807      995      1000      1005
809 Ser Lys Asn Ile Asp Val Asn Val Asp Ile Asn Asp Asp Val Asp Lys
810      1010      1015      1020
812 Tyr Ser Glu Glu Tyr Met Asp Asp Asp Asn Phe Ile Lys Ser Phe Ile
E--> 813 (025)/025      1030      1035      1040
815 Gly Lys Ser Arg Ile Ile Lys Met Asp Asn Glu Asn Asn Asn Thr Asn
816      1045      1050      1055
818 Glu His Tyr Ser Ser Arg Gly Asp Thr Gln Thr Lys Lys Lys Val
819      1060      1065      1070
821 Cys Ile Phe Asn Met Gly Ser Met Leu Phe Asn Val Ile Asn Ala Ile
822      1075      1080      1085
824 Lys Glu Ile Glu Lys Glu Gln Tyr Ile Ser His Asn Tyr Ser Phe Ser
825      1090      1095      1100
827 Ile Val Asp Met Ile Phe Leu Asn Pro Leu Asp Lys Asn Met Ile Asp
E--> 828 (105)/105      1110      1115      1120
830 His Val Ile Lys Gln Asn Lys His Gln Tyr Leu Ile Thr Tyr Glu Asp
831      1125      1130      1135
833 Asn Thr Ile Gly Gly Phe Ser Thr His Phe Asn Asn Tyr Leu Ile Glu
834      1140      1145      1150
836 Asn Asn Tyr Ile Thr Lys His Asn Leu Tyr Val His Asn Ile Tyr Leu
837      1155      1160      1165
839 Ser Asn Glu Pro Ile Glu His Ala Ser Phe Lys Asp Gln Gln Glu Val
840      1170      1175      1180
842 Val Lys Met Asp Lys Cys Ser Leu Val Asn Arg Ile Lys Asn Tyr Leu
E--> 843 (185)/185      1190      1195      1200
845 Lys Asn Asn Pro Thr
846      1205

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VERIFICATION SUMMARY

DATE: 02/12/2004

PATENT APPLICATION: US/09/673,389A

TIME: 15:37:03

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Output Set: N:\CRF4\02122004\I673389A.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:813 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4

M:332 Repeated in SeqNo=4